

BADGER STATE

SMOKE SIGNALS

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FOND DU LAC WIQP AWARD
PRESENTATION

By Tom Macon, K9BTQ

Dick Wood, W9JBE, and Tom Macon, K9BTQ, attended a meeting of the Fond du Lac Amateur Radio Club on June 14. The purpose of the visit was to present the First Place plaque to FDLARC for the highest score in the Club Competition in the 2004 Wisconsin QSO Party. Lynn Tamblyn, K9KR, Chairman of WIQP, had planned the visit but then was unable to make the trip.

The Fond du Lac group is a repeat winner of this award, having also won in 2003 when they set a new Club Competition record. This year's effort is not a new record, but back-to-back wins is still an outstanding achievement. They had eleven members enter the contest and they produced a total score of 425,414 points. Congratulations on this club achievement!. This year saw 22 Wisconsin club entries in WIQP, down from 27 last year.

The Fond du Lac group extended a warm welcome to us and they had some fine things to say about WIQP. Several members expressed appreciation for our club's sponsorship of WIQP and for the amount of work required to compile the results in a timely manner. In summary, the message we heard was that it's a great contest, one of the best state QSO parties don't change a thing.

Larry Hammel, K5OT, the highest scoring Single Operator in Wisconsin, is also a member of FDLARC. But since Larry and his family moved to Texas in early June, he was not available to receive his plaque at the meeting. Chairman Lynn and his XYL, Joanne, had met Larry earlier in Lomira to present him with his plaque.

In his winning effort, Larry traveled through 21 counties during WIQP using his Kenwood TS850 and Hustler antennas in a pickup truck. He cranked out 711 CW Q's this year with 62 multipliers and bonus points for a total of 142,246 points. Congratulations Larry! Larry set a milestone last year by being the first Single Operator in Wisconsin to win WIQP with a mobile entry. His back-to-back wins as highest scoring WI Single Operator are going to be hard to beat.

Text and photos courtesy of West Allis ARC Hamtrix.

Check us out on the web at
[Http://www.bs3s.org](http://www.bs3s.org)



Fran Theisen, W9XYL, President of Fond du Lac Amateur Radio Club, smiles as she accepts the First Place plaque for the WIQP Club Competition

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WHAT’S HAPPENING

Swapfests and Other Social Events — Club Meetings Amateur Radio Exam Schedules

Edited by Kenneth A. Ebnetter, K9EN, 822 Wauona Trail, Portage WI 53901 — kenneth.ebnetter@verizon.net

Swapfests And Other Social Events

August 8, 2004 Hamfester’s Radio Club Hamfest. Will County Fairgrounds, Peotone, IL. www.hamfesters.org.

August 14, 2004 Circus City Swapfest, Baraboo, WI. Sauk County Fairgrounds, Baraboo, WI. See ad elsewhere this issue for further details.

August 15, 2004. Summerfest 2004, Amana, IA. Information: Darrel Peterson, WA0KHH, 7421 Commune Ct. Cedar Rapids, IA 52411. (319) 393-8667. www.cvarc.rf.org

September 11, 2004. Eau Claire, WI.
The Eau Claire ARC Swapfest has been cancelled according to information on their web site <http://www.ecarc.org/hamfest.htm>

September 18th & 19th. , Grayslake, IL
RADIO EXPO 2004 at the Lake County Fairgrounds in Grayslake IL. <http://www.chicagofmclub.org>

September 17-18-19, 2004. Peoria Superfest, Exposition Gardens Fairgrounds, 1601

W Northmoor Rd, off N. University, Peoria, IL. Contact: Peoria Superfest, PO Box 3508 Peoria, IL 61612-3508. (309) 692-2378. e-mail: w9uvi@arrl.net. <http://www.peoriasuperfest.com>.

November 6, 2004. Milwaukee Repeater Club Amateur Radio Fest 2004, Waukesha County Expo Center Forum Buildings, Waukesha, WI. Panckae breakfast 7:00 - 9:00 a.m. <http://www.mrc91.org>. e-mail: swapfest@mrc91.org

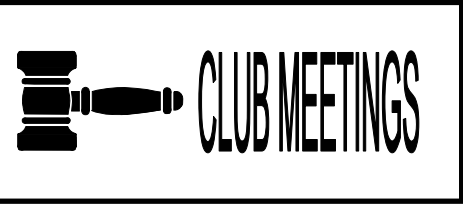
November 7, 2004. Fox Cities Amateur Radio Club 2004 Swapfest. Waverly Beach, N8870 Fire Lane 1, Menasha, WI. Contact: W9ZL, Swapmeet, 163 Main St. , Menasha, WI 54952. www.w9zl.org e-mail N9RJZ@tponet.com.

January 8, 2005, Waukesha, WI
33rd Annual Midwinter Swapfest, sponsored by the West Allis RAC. Waukesha County Expo Center Forum, Waukesha, WI. For information contact: www.warac.org, WARAC Swapfest, PO Box 1072, Milwaukee, WI 53201, or Phil, W9NAW, (414) 425-3649 GPS coordinates: Latitude 43.03227, Longitude -88.23948

Further information about hamfests in the area can be found at bsss.org or at <http://www.arrl.org/>

[hamfests.html](#)

If your organization is sponsoring a Hamfest/Swapfest and would like us to list your event, please send the information to Ken Ebnetter, K9EN at the address below or to k9en@arrl.net



Due to space limitations, we are not always able to carry the full listing of club meetings around the Wisconsin area. Please see the June 2004 issue of BSSS for the latest listing. If you have any changes or additions to that listing please let us know at the address shown on this page.

There are no additions or changes reported to BSSS at this time.

News headline: Stolen Painting Found by Tree.

News headline: Hospitals Sued By 7 Foot Doctors.

Some of us have reached the age where the happy hour is a nap.

The Test Point



Amateur Radio Examination Locations and Schedules in the Area

August 07, 2004	Madison, WI
August 07, 2004	St. Paul, MN
August 12, 2004	Apple Valley, MN
August 14, 2004	Adams, WI
August 14, 2004	Blaine, MN
August 14, 2004	Oshkosh (Omro), WI
August 17, 2004	Eden Prairie, MN
August 21, 2004	Milwaukee, WI (BE)
August 21, 2004	Loves Park, IL
August 21, 2004	Cottage Grove, MN
August 28, 2004	Bloomington, MN
August 28, 2004	Tomahawk, WI
September 04, 2004	Madison, WI
September 04, 2004	Racine, WI
September04, 2004	St. Paul, MN
September 09, 2004	Apple Valley, MN
September 10, 2004	Blaine, MN
September 10, 2004	Oshkosh (Omro), WI
September 11, 2004	Onalaska, WI
September 18, 2004	Milwaukee, WI (BE)
September 18, 2004	Loves Park, IL
September 18, 2004	Cottage Grove, MN
September 21, 2004	Eden Prairie, MN
September 25, 2004	Tomahawk, WI
September 25, 2004	Bloomington, MN
September 25, 2004	Milwaukee, WI (MRAC)
October 02, 2004	Madison, WI
October 02, 2004	Racine, WI
October 02, 2004	St. Paul, MN
October 07 2004	Apple Valley, MN
October 09, 2004	Blaine, MN
October 09, 2004	Oshkosh (Omro), WI
October 09, 2004	Eden Prairie, MN
October 16, 2004	Milwaukee, WI (BE)
October 16, 2004	Loves Park, IL
October 16, 2004	Cottage Grove, MN
October 23, 2004	Bloomington, MN
October 30, 2004	Milwaukee, WI (MRAC)
October 30, 2004	Tomahawk, WI
November 06, 2004	Menomonie, WI
November 06, 2004	Madison, WI
November 06,2004.	Racine, WI
November 06, 2004	St. Paul, MN
November 06, 2004	Menomonie, WI
November 11, 2004	Apple Valley, MN
November 13, 2004	Adams, WI
November 13, 2004	Onalaska, WI
November 13 2004	Blaine, MN
November 13, 2004	Oshkosh (Omro), WI
November 16, 2004	Eden Prairie, MN
November 20, 2004	Milwaukee, WI (BE)
November 20, 2004	Loves Park, IL

Badger State Smoke Signals

Amateur Radio Education and Information

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EDITORIAL BOARD: Ken Ebnetter, K9EN; Don Evenson, K9JYX.

Subscription Rate

1 year (6 issues—bi-monthly)\$13.95

A subscription form is in this issue. Special club package reduced rates are available. For information, contact Ken Ebnetter, K9EN.

When to Send It

The closing date for each issue is the first of the month before the issue date. For example, the closing date for the May issue is April 1. The only exception is for participating clubs' minutes. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections, and exchange papers should be sent to Ken Ebnetter.

Editorial material, photographs, and feature articles should be sent to Ken Ebnetter, K9EN.

Web page material should be sent to n9qa@arrl.net (Dave Knaus, N9QA).

Inquiries about advertising should be directed to Ken Ebnetter.

Club, swapfest, and Test Point information should be sent to Ken Ebnetter.

Swapfest ADS should be sent to Ken Ebnetter, K9EN no later than eight weeks before the

events date.

Subscriptions should be sent, with check or money order, to Ken Ebnetter.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*.

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Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

(Continued from page 2)

November 20, 2004	Cottage Grove, MN
November 27, 2004	Bloomington, MN
November 27, 2004.	Milwaukee, WI (MRAC)
November 27, 2004.	Tomahawk, WI
December 04, 2004	Madison, WI
December 04, 2004	Racine, WI
December 04, 2004	St. Paul, MN
December 09, 2004	Apple Valley, MN
December 11, 2004	Blaine, MN
December 11, 2004	Oshkosh (Omro), WI
December 18, 2004	Milwaukee, WI (BE)
December 18, 2004	Loves Park, IL
December 18, 2004	Cottage Grove, MN
December 21, 2004	Eden Prairie, MN
Monthly, 1st Sat.	Madison, WI
Monthly, 1st Sat.	Racine, WI
(except Jan., Jul., & Aug.)	
Monthly, 1st Sat.	St. Paul, MN
Monthly, 2nd Thu.	Apple Valley, MN
Monthly, 2nd Sat.	Blaine, MN
Monthly, 2nd Sat.	Oshkosh (Omro), WI
Monthly, 3rd Tue.	Eden Prairie, MN
Monthly, 3rd Sat.	Milwaukee, WI (BE)
(September through April)	
Monthly, 3rd Sat.	Loves Park, IL
Monthly, 3rd Sat.	Cottage Grove, MN
Monthly, 4th Sat.	Bloomington, MN
Monthly, Last Sat.	Milwaukee, WI (MRAC)
(except Mar., Jun., Aug., & Dec.)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	

GENERAL RULES FOR MOST EXAMINATIONS: Be sure to check with sponsors before going to an examination session. There may be changes and/or errors in the dates or information given. Some examinations require filing an FCC or NCVEC Form 605 and advance registration at least 30 days before the exam date. Some VE teams permit walkins. Check with the sponsor.

Many hamfests and swapfests offer examinations. A Hamfest entrance fee should not be charged if you come only to attend the examination. To register in advance, you must get a copy of the current FCC Form 605, and fill it out completely and correctly. Get your form from the FCC as instructed below, or from the American Radio Relay League, 225 Main Street, Newington, CT 06111. Please send an SASE if you request a form from the League. FCC Field Offices seldom stock forms. You can also get a form from

http://www.fcc.gov/formpage.html
or
ftp://ftp.fcc.gov/pub/Forms/Form605.

A form by FAX is available at (202) 418-0177 (request Form 000605). The FCC Forms Distribution Center will accept orders at (800) 418-3676. Form 605 has a main form, plus a Schedule D with two parts (for Vanity and Physician's Certifications). Forms can also be obtained from the sponsoring group.

See QST, W1AW bulletins, or The ARRL Letter regarding any annual exam fee changes. ARRL/VEC no longer gives a free code test or Element 2. Test fees: The ARRL/VEC has set its 2004 test fee at \$12.00. FCC requires applicants to show their original amateur license or CSCE to the VE team. You must also have a good copy of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 605 and most VE teams need a copy for their records. One good CSCE copy is sufficient. You are also be required to have a photo ID, or two other forms of ID. Contact the VE

team for details.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only. Proof must be either in the form of a pre-3/21/87 license document or a "Letter of Verification of Technician License Held Prior to 1987" as requested in writing from the FCC, 1270 Fairfield Road, Gettysburg, PA 17325-7245. For those with internet access, a listing of exam sessions is available from:

http://www.arrl.org/arrlvec/examsearch.phtml

By checking this page, you can find registered VE sessions anywhere in the US and some overseas. You can search by country, state or zip code. The listing is not specific to any particular VEC. It is a master database. Thanks to Bart Jahnke, W9JJ, ARRL/VEC.

Adams, WI
ARRL / VEC Amateur testing Saturday Aug. 14 and Nov. 13, 2004. Testing will begin at 1:00 PM at the Adams County Library 569 N. Cedar St. Adams, WI. The library is located 3 blocks west of Main St. (Hwy 13) behind the IGA store. For information contact Ed Wagner at ab9fn@arrl.net. Walk-ins are welcome.

Appleton, WI
Fox Cities ARC (ARRL/VEC) All regular test sessions are held at the American Red Cross Building in Appleton. Testing starting at 8 a.m. No walk-ins after 9 a.m. For information, contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (920) 730-0967. Email: w9mdp@arrl.net.

Eau Claire, WI
Eau Claire Amateur Radio Club.
South Middle School, North East side door 7, 2115 Mitscher Ave, Eau Claire, WI
Technician, General and Extra Class exams. Walkins welcome.

Examination session coordinator: Steve Bluem, KA9OMY, ka9omy@arrl.net. Telephone: 715-839-6509. www.ecarc.org. w9eau@ecarc.org.

Fond du Lac, WI
Fond du Lac ARC (ARRL/VEC). Community United Methodist Church, 701 Minnesota Ave., North Fond du Lac. 9:00 a.m. Walk-ins allowed. Contact: Douglas J. Schultz, 920-922-3088, schultz74@charter.net.

Madison, WI
First Saturday monthly: 8 a.m. to 10 a.m. Space Place, 1605 South Park Street, Madison. Please bring a picture ID, your original license, a copy of your license, and the original and a copy of any relevant CSCEs, and a check for \$10.00 made out to the ARRL/VEC. No appointments are necessary to take exams. Exams start promptly at 8 a.m. Questions may be directed to Tim Czerwonka, WO9U, at 608-239-3696 (home phone) or sent to wo9u@arrl.net.

Marshfield, WI (ARRL/VEC)
Sponsored by the Marshfield Area ARS. 6:00 p.m. (walk-in allowed). :pcatopm: St. Joseph's Hospital, 611 St. Joseph Ave., Room 124, Hospice Self Bldg, Marshfield, WI. Contact: Lee A. Olson, (715) 389-888. e-mail: lolson@t2net.com.

Medford, WI (ARRL/VEC)
Sponsored by the Taylor County Area Amateur Radio Club (ARRL/VEC affiliated). Testing for all classes, Technician through Extra. Registration starts at 7:30 PM, testing starts at 8:00 PM. Loca-

tion: the conference room of the Medford Public Library, 400 N. Main St., Medford, WI. From the intersection of State Hwys. 13 and 64, proceed west on Hwy. 64 to Main St. Turn north on Main St. and take Main St. to the library. Talk-in on the 147.15 (+600 kHz, 114.8 Hz PL) repeater. Walk-ins welcome, however, if you know you'll be attending, it would be appreciated if you call ahead. Contact: Tom Hrdina, N9GEN, 2373 Willow Ave., Medford, WI 54451, phone (715) 748-4054 or e-mail to Mike, N9GHZ, at mds54449@yahoo.com.

Menominee, MI
Marinette-Menominee Amateur Radio Club. Location: The cafeteria of Bay Area Med Center, US-41 in Menominee. Building located next to KFC just off the Interstate Bridge. All classes given. Advance notice preferred, but not required. Test fee is \$10 with two pieces of identification required. Contact Jeff Rymer, N9PQU at jrymer@ez-net.com or Ed Engleman, KG8CX, at dxeer@cybrzn.com. We will monitor the 147.000 (107.2 pl) repeater in event further directions or info is needed.

November 16, 2004
Menomonie, WI
ARRL/VEC. Location: NEWUW-Stout Communications, Millennium Hall, Broadway & 10th Ave., Menomonie, WI. Contact: James P. Ley, 715-235-3998.

Milwaukee, WI
Badger Examiners (W5YI VEC) September thru April, every third Saturday morning, 9:30 a.m. to noon. Badger Examiners group tests at AES (Amateur Electronic Supply) at 60th and Good Hope, Milwaukee (use the entrance numbered 5730). Exams are given at the old Sterman Printing shop, just 300 feet west of the AES store. Novice to Extra are offered, and all test materials are provided. Fee is \$10.00, and bring your original license, or CSCE if needed. Also available are Commercial license exams GROL (General Radiotelephone license), GMDSS, Telegraph, Etc. Fee is \$35.00. For more information call Gary Sharbuno, WI9M at (414) 355-0237.

Milwaukee, WI
Milwaukee Radio Amateurs' Club (MRAC VEC) Last Saturday, except in March, June, August, and December. In addition, we test at the West Allis RAC Swapfest in January and at Superfest in April. 9:30 a.m. to noon at Amateur Electronic Supply (AES), 5710 W. Good Hope Road (the door you enter is actually numbered 5730), Milwaukee. For additional information, call (262) 797-MRAC. Bring along your original license, CSCE (if any), and one (1) good quality photocopy of each, plus two forms of identification, such a driver's license, etc. Also required is \$8.00 for the exam fee. Walkins are welcome. To register in advance, use a post card. Print the grade of license you are applying for, your name, address, and telephone number, and send the card to MRAC/VEC, Milwaukee Radio Amateurs Club, P.O. Box 070695, Milwaukee, WI 53207. Contact: John G. Kraak, 262-797-6722.

Onalaska, WI
Riverland ARC (ARRL/VEC). 9:00 a.m. Onalaska Public Library, 741 Oak Street, Onalaska, WI. Contact: Roger Reader, KA9BKK, 608-783-0723, readers@centurytel.net.

Oshkosh, WI (Omro)
Oshkosh VE Team Amateur Radio exams monthly on the first Saturday. Registration begins at 8:30 a.m. and exams will be given from 9 a.m. until noon. Omro Community Center, 130 W. Larrabee, Omro, WI. Walkins welcomed. Bring a good quality photocopy of your original license and any other necessary documents such as a CSCE, etc. The first session will be through W5YI/VEC, and then ses-

sions will alternate between ARRL/VEC and W5YI/VEC. The exam fee is \$6.65. For more information, please call Dick Lemme, K9FA, at (920) 235-0987, e-mail: lemme@vbe.com, or write Dick at 826 Jefferson Street, Oshkosh, WI 54901.

Portage, WI
ARRL / VEC Amateur testing on Oct. 23, 2004. Testing will begin at 9:00 AM at the Columbia County Law Enforcement Center 711 E. Cook St. (Hwy 33) Portage, WI.
Talk-in freq. is 146.520 MHz. For more information contact Brian Smith, KG9OG at 608-742-4562 or Ed Wagner, AB9FN at ab9fn@arrl.net. Walk-ins are welcome.

Racine, WI
ARRL VEC Monthly - first Saturday, except January, July, and August. Monthly exams are given 9 to 11 a.m. at the Faith United Methodist Church, 1013 Harmony Drive, Racine. Walk-ins are permitted. Talk in on 147.87/.27. Inquiries and registrations should be directed to Paul B. Smedegaard, N9RGW, 929 Lathrop Ave., Racine, WI 53405-2339. Telephone: (262) 637 4750. or e-mail to smedegaa@wi.net

Sheboygan, WI
VE testing dates in Sheboygan County, Wisconsin, for 2003 will be according to the following schedule:
Saturdays 8:30 AM, 10, 13 September
Tuesdays 6:30 PM, 15 July, 18 November
Sheboygan County ARC (ARRL/VEC). Exams are held in the Red Cross Building, 2032 Erie Avenue, Sheboygan, WI. The test areas are handicap accessible with signage posted to direct candidates to the proper area of the building. Walk-ins are accepted, however notification ahead of time of your intention to appear would be appreciated.
Contact: Art Pahr K9XJ 920-876-2370
N8029 Willow Road k9xj@arrl.net
Plymouth, WI 53073-2929

Shell Lake, WI
NORWESCO ARES/RACES (ARRL/VEC). Washburn County Law Enforcement Center, lower level meeting room, 421 Hwy 63, Shell Lake. Walk-ins allowed. This is for all classes of license. Persons wishing to upgrade an existing license should bring a photocopy of it to submit. Also need a photo ID to prove who you are. The fee is \$10.00. Contact: Richard J. Eckenrode, 715-466-4109. Email: cen34109@centurytel.net. Web Site: fp1.centurytel.net/norwesco/.

Tomahawk, WI
Tomahawk ARRL VE Team (ARRL/VEC). Last Saturday of every month, January thru October. Registration at 8:30 a.m. and testing starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633, dcollins@newnorth.net.

St. Paul, MN
Saint Paul Radio Club (SPRC) First Saturday of the month, 8:30 a.m. Test Site: St. Paul Technical College, 235 Marshall Ave., St Paul, MN. Ed Van-Cleave, W0VC, (612) 636-0108. www.qsl.net/sprc/index.html.

Rockford, IL
Northern Illinois Volunteer Examiners (W5YI VEC) Third Saturday of every month. 9:00 a.m. to noon. No new applicants after 11:00 a.m. Walkins welcome. Held at St. Anthony Hospital, 5660 E State St., Rockford, IL. Rusty Cordell, WB9QYV, 1823 Hulin St., Rockford, IL 61102-2619. (815) 968-0080. e-mail: WB9QYV@aol.com.

Wisconsin Nets Association Ltd.

Dean R. Herriges, KB9ROB, Secretary
W370 S9590 Highway 67 • Eagle, WI 53119

WISCONSIN NETS

Net	WNA	Freq.	UTC	LOCAL	Manager
BWN	YES	3985	1100	0600	W9RCW
BEN	YES	3985	1700	1200	KE9VU
WSBN	YES	3985	2215	1715	N9ZET
WNN	YES	3723	2300	1800	KB9ROB
WSSN	YES	3645	2330	1830	WA9ZTY
WIN/E	YES	3662	0000	1900	WB9ICH
WIN/L	YES	3662	0300	2200	W9UW
RCRA	NO	01/61	0030	1930	KA9OMC
(Mondays CDT— Menomonie Area)					
Green Bay Area	NO	72/12	0245	2145	WB9NRK
ARES	NO	4.65/5.25	0200	2100	
(South East/South Central Wisconsin)					

STM REPORT WISCONSIN May 2004

FAQ #27 How should I spend my summer vacation? Thank you for asking. If you have a little extra time, here are some suggestions. (1) Participate in severe weather watches. (2) Get involved with Field Day. (3) Take the EMCOMM course you've been postponing. (4) Fix your antennas. (5) Clean your ground connections. (6) Complete FEMA's basic Incident Command System course. (7) Talk with your county's Emergency Coordinator. Make plans. (8) Check into some traffic nets. (9) Check into some other traffic nets, ones you usually don't. Perhaps a slow-speed CW net? (10) Offer yourself as an Elmer to a new or potential Ham. (11) Send a few pieces of traffic. (12) Review FSD-218, the famous pink card, to

check on your traffic-handling techniques. (13) Try some portable operation. (14) Volunteer as a net control. Yes, do it! And if you run short of activities... (15) Make some lists of how to spend your next summer vacation.

STM REPORT WISCONSIN JUNE 2004

FAQ #28 Where does undelivered traffic go? The easy answer is -- nowhere, but that's not exactly true. Unlike the Dead Letter Office, there's no Dead Radiogram Office, but there are a number of options for the station attempting delivery.

You have accepted a message for a local address. It turns out there's no such address.

If the phone book doesn't work,

the white pages on the Internet is no help, and questions around the local area don't yield any results, it's time to file the message at your station and send a message to the originating station. For this easy task, there's an ARRL numbered radiogram ready for you. You can usually find the name and address of the originating station on QRZ.com or through the ARRL site. The text of your message could read like this: ARL SIXTY SEVEN NO SUCH ADDRESS.

FAQ#29 How can I get a list of stations that check into the section nets in Wisconsin? There's one linked to the Wisconsin web page of ARRL's site or you can ask me. I'll email or post one to you asap.

Enjoy your summer. 73 - K9LGU/STM WI

WISCONSIN SECTION MONTHLY NET ACTIVITY SUMMARY MAY 2004

NET	QNI	QTC	QTR	SSNS	NM
BWN	1578	1877	2805	31	W9IXG
BEN	461	63	693	28	KE9VU
WSBN	687	100	966	31	K9FHI
WNN	161	16	291	25	KB9ROB
WSSN	201	31	363	31	WA9ZTY
WIN/E	224	54	309	31	WB9ICH
WIN/L	230	69	408	31	W9UW
WRACES	0	0	0	0	N6NKO
Totals	3542	2210	5835	208	

MIDWEST CLASSIC RADIO NET AM ONLY QNI 180 INFO EXCHANGES 73/60 QTR 550 MIN 5 SESSIONS

WISCONSIN SECTION MONTHLY NET ACTIVITY SUMMARY JUNE 2004

NET	QNI	QTC	QTR	SSNS	NM
BWN	1451	1754	2877	30	W9IXG
BEN	484	33	731	29	KE9VU
WSBN	653	83	939	30	K9FHI
WNN	166	12	278	26	KB9ROB
WSSN	190	29	315	27	WA9ZTY
WIN/E	206	39	285	29	WB9ICH
WIN/L	237	52	363	30	W9UW
WRACES	89	4	216	4	OPEN
Totals	3476	2006	6004	205	

MIDWEST CLASSIC RADIO NET (AM only) QNI 129 SVC 49 QTR 327 4 SSNS

WISCONSIN SECTION STATION ACTIVITY SUMMARY MAY 2004

STATION	ORIG	RCVD	SENT	DLVD	TOTAL
K9JPS	0	592	31	568	1191 - BPL
W9IHW	0	152	31	136	319 - BPL*
W9CBE	0	137	111	5	253
N9VE	0	111	39	101	251 - BPL*
K9LGU	7	69	57	5	138
WA9ZTY	0	37	82	2	121
AG9G	0	31	80	0	111
W9UW	0	58	34	2	94
W9SWL	0	21	56	2	79
K9FHI	0	33	38	2	73
W9BHL	0	19	52	0	71
KE9VU	0	19	21	0	40
W9KKM	0	2	30	2	34
KA9RZL	9	17	6	1	33
N9NNN	0	0	29	0	29
AA9BB	0	0	28	0	28
KB9ROB	0	24	2	1	27
WB9ICH	0	18	2	2	22
WD9FLJ	3	6	4	5	18
K9UTQ	0	6	4	6	16
K9GU	0	0	15	0	15
W9RSX	0	1	12	1	14
W9PVD	0	1	1	1	3

WISCONSIN SECTION STATION ACTIVITY SUMMARY JUNE 2004

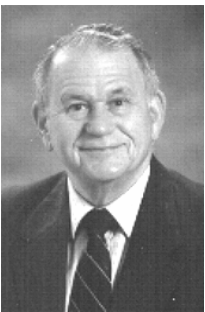
STATION	ORIG	RCVD	SENT	DLVD	TOTAL
K9JPS	0	524	32	511	1067 - BPL
W9IHW	0	252	43	216	511 - BPL
W9CBE	0	96	81	17	194
K9LGU	1	70	30	4	105
WA9ZTY	0	71	30	1	102
N9VW	0	46	9	43	94
AG9G	0	18	61	3	82
K9FHI	0	35	42	0	77
W9BHL	0	14	41	0	55
W9SWL	0	7	35	3	45
KE9VU	0	20	23	0	43
W9UW	0	29	8	2	39
W9KKM	0	2	32	2	36
N9NNN	0	0	32	0	32
K9GU	0	0	31	0	31
W9RCW	0	0	30	0	30
AA9BB	1	0	23	0	24
KB9ROB	0	18	2	1	21
KN9P	4	5	10	0	19
KA9RZL	0	5	10	0	15
W9RSX	0	0	11	0	11

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The Computer Corner

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No. 117. How to Organize Your Data for Backup Purposes

In the last article, I again briefly mentioned how to organize your data for quick, painless backing up. However, just the last month, I have had at least half a dozen queries that resulted in my discussing this topic. In each case, after I explained the process, the listener said, “gee, that makes a lot of sense – I will follow your suggestions”. So here is the topic expanded a bit and presented as clear as I can make it.

With the focus we are taking here, you have essentially two kinds of files on your computer, no matter how you use your machine.

The first kind are program files, also known as application files. Let us consider a couple of examples. For purposes of this discussion, we’ll consider Windows (whatever version) as a program. Also, Microsoft Word is one. Your graphics editor is another. Your browser is another. All of these are really suites of many files. They consist of at least one executable file (*.exe or *.com), and a whole raft of ancillary files – device drivers, program data files, setup files, settings files, dynamic link libraries, and so on. There are easily hundreds of such files for Windows itself, and many dozens of files for Word. Graphics editors almost always have one to two dozen, and browsers (Netscape, Internet Explorer) have even more.

The point is that you do not need to, nor should you, take the time or media space (floppy, CD-ROM, tape) to back them up. You should have the original CD-ROMs for your applications. If you bought a computer with all these programs installed and didn’t get the CD-ROMs, you were cheated! You paid for the programs and are entitled to a copy on CDs. Contact the seller and get them. Assuming you were given the CDs (as is proper), you can always reinstall the application if something goes wrong, so you don’t need to back them up. Actually, reinstallation is the preferred way to recover when things go wrong, because simple copying of the files from your own backup media does not modify the Registry (which is necessary for the programs to work correctly). You should always install or reinstall programs by using the Add/Remove Programs applet in

the Control Panel, which copies the files from the installation media and records everything necessary in the Registry. Therefore, there is no need to back up programs during your backup sessions.

The second kinds of files are your data files. These are not just any data files. Rather, they are your creations. A letter to your friend, a photo of your granddaughter, a spreadsheet with your investments, a shopping list, birthdays of your family members, the file containing frequencies programmed into your HT, the layout file of your QSL card, data and notes for preparation of your taxes, and so on. These files are the ones you need to back up, because you cannot replace them if the hard drive crashes! Lump into this category every file that: 1. You create, or 2. That you modify from an original you obtained from some other source.

Well then, if that is the case, you need some method to separate all of the files that fall into the second category. In the past, I have recommended that you do this by making separate partitions on the hard drive: C:\ for Windows, D:\ for applications such as Word, and E:\ for your creations. This will work. However, I realize that there are quite a few of you who do not wish to repartition the hard drive. So, as an alternative, make a separate folder on your C:\ drive – call it MYSTUFF or some other such name. You might want to create subfolders under MYSTUFF. LETTERS, FINANCES, PHOTOS, HAMSTUFF, and maybe you might want to make a subfolder of HAMSTUFF called HT, and another called ANTENNAS. Get the idea?

Now, once you have made the folder C:\MYSTUFF and its subfolders, tell Microsoft Word to save all your files to MYSTUFF, or if you want to be more specific, to C:\MYSTUFF\LETTERS. You could even make it C:\MYSTUFF\WORD. Every major application will let you choose where your saved files go. You can change the default (C:\MY DOCUMENTS) save folder in Microsoft Word by clicking Tools, Options, and the File Locations tab. Do the same with your spreadsheet program, perhaps EXCEL – tell it to save files in C:\MYSTUFF\FINANCES, or even C:\MYSTUFF\EXCEL. Your photo editor program should be pointed to

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WISCONSIN SECTION MANAGER REPORT

MAY 2004

WISCONSIN: SM: Don Michalski, W9IXG, SEC: KB9ENO, STM: K9LGU, ACC: K9XB, SGL: W9DGI, OOC: N9VE, PIC: KB9NUM. TC: K9GDF, BM: WB9NRK ASM: K9UTQ, W9RCW, W9CBE, W9DGI.

** With regret, I inform you of the passing of Arthur Cermak, N9TQP, 88. Also, Harold Ferguson, W9IEM, 91, and Russell Webber, WA9EKG, 86, passed away. Russell was a long-time member of MARS.

** The Eau Claire Amateur Radio Club participated in the Boy Scouts of America's Big Event. 850+ Scouts camped out at Beaver Creek Reserve, north of Fall Creek, Wisconsin. The following members of the ECARC set up the W9EAU amateur station and information tent: W9AVM, KB9PJM, W5JLM, KB9QYO and KG9RA. Over 325 Kids passed through the tent with hundreds of questions.

** OZARES was activated on May 23 to provide traffic control and communications to protect sandbag workers due to flooding of the Milwaukee River. Given the recent floods, I suspect that other clubs and ARES will be activated to provide assistance so please lend a hand if called. And, keep me informed!!!

** I see from the newsletters that many clubs are talking about doing Fox Hunts. This is a great club activity and I really encourage you to consider doing more than one a year. The best way to become more proficient is to practice. There is a lot of material to help you get started in this fun facet of the hobby. Let us know if you want to learn more!

** The Chippewa Valley ARC has an excellent working relationship with the Chippewa Falls police department. Roy Anderson, EC for Chippewa county, reports that the CVARC is assisting the department with verification of proper operation of sirens during tests as well as weather watch and nets. We are happy to hear they are providing a valuable community service! Good work!

** WIQP results: Congratulations, again, to Larry Hammel, K5OT, for his top individual Wisconsin score of 142,246 points! He traveled through 21 counties. Top club honors go to the Fond du Lac ARC with a score of 425,414! Even though band conditions were not great this year, we hope everyone had a good time at the Party. A full report can be found at this site: <http://www.warac.org/wqp/2004/04result.pdf>

** The Governor of Wisconsin proclaims June 26 as Amateur Radio Operator Recognition Day.

** From Denny, K9LGU, STM: FAQ #27 How should I spend my summer vacation? Thank you for asking. If you have a little extra time, here are some suggestions. (1) Participate in severe weather watches. (2) Get involved with Field Day. (3) Take the EMCOMM course you've been postponing. (4) Fix your antennas. (5) Clean your ground connections. (6) Complete FEMA's basic Incident Command System course. (7) Talk with your county's Emergency Coordinator. Make plans. (8) Check into some traffic nets. (9) Check into some other traffic nets, ones you usually don't. Perhaps a slow-speed CW net? (10) Offer yourself as an Elmer to a new or potential Ham. (11) Send a few pieces of traffic. (12) Review FSD-218, the

famous pink card, to check on your traffic-handling techniques. (13) Try some portable operation. (14) Volunteer as a net control. Yes, do it! And if you run short of activities. (15) Make some lists of how to spend your next summer vacation. 73- K9LGU/STM--WI

** I hope you are planning on participating in Field Day. Don't forget to send me a message through the NTS on any of the Wisconsin nets. I want to receive a formal report from every Wisconsin club participating in Field Day. Remember, it counts for an additional, easy, 100 points. Full rules for this event are found at this site: <http://www.arrrl.org/contests/rules/2004/rules-fd-2004.html>

Good luck!! 73, Don W9IXG
ARRL Wisconsin Section Section Manager: Donald E. Michalski, W9IXG
w9ixg@arrrl.org

JUNE 2004

WISCONSIN: SM: Don Michalski, W9IXG. BWN 3985 0500-0715 W9IXG. BEN 3985 1200 KE9VU. WBSN 3985 1730-1800 K9FHI. WNN 3723 1800 KB9ROB. WSSN 3645 1830 WA9ZTY. WIN-E 3662 1900 WB9ICH. WIN-L 3662 2200 W9UW. (All times are Central)

** With deep regret, I am informing you of the passing of Robert Trainor, N9RSH, age 32, and Joe, KJ9W. Joe was a member of Army MARS and a long-time traffic handler on the nets. Herbert Bloedel, W9GAA, 85, is a Silent Key. Herbert was a member of the Rib Mountain Amateur Radio Repeater Association. W9IZQ, George Pfister, 86, passed away. George was an Amateur for 70 years. John Grobark, K9EIC, 85, is a recent Silent Key. John was active in the hobby since age 11.

** The Captain of the Brandon Travis came onto the Maritime Mobile Service Network, <http://mmsn.org> (14.300 MHz) stating that he needed medical assistance. Tom Warrenburg, KA9EKG, was one of the Amateurs who responded to his request and was able to assist in getting a doctor to provide medical assistance over the air. Well done, Tom!!

** Field Day reports: I appreciate receiving the following formal FD reports: W9HB and KF9D operating FD. West Allis RAC with 14 operators; Racine Megacycle club with 26 Amateurs and 5 visitors; Four Lakes ARC with 12 operators; Calumet ARC with 7 operators; Tri-County ARC and Jefferson County ARES with 9 operators; Ozaukee club with 28 operators; K9UTQ running class 1B; N6NKO operating class 1C; Riverland ARC with 15 operators; Mississippi Valley Area Operators with 9 operators and 14 visitors in La Crosse area; Mancorad club with 22 participants; Outagamie County ARES and Fox Cities Amateur Radio Club with 33 operators and 33 guests; Wisconsin Valley Radio Association in Wausau with 15 operators; Hidden Valley ARC with 31 operators and guests; Columbia ARES with 12 operators at Cascade Mountain; Falls ARC with 9 operators at Washington County Humane Society; Rock River Radio Club with 12 ARES operators and 11 guests; Fond Du Lac ARC operating from the ARES tent; 4 operators at K9VSO's station; M&M ARC with 30

(Continued on page 8)

Mancorad Radio Club

Theresa Hartlaub, KB9KXE
Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61

The Mancorad May monthly meeting was called to order at 7:30pm by Pres. Fred W6BSF. After the Pledge of Allegiance was given by all members, the minutes of our last meeting and the current treasury report were read and approved by motions made by Ken (K9HAG) and John (NZ9Z).

Club fundraiser brat fries have been set for Aug. 7th at the CR Mobil stop station and Sept. 25th at Rob’s market on Menasha Ave.

Fred announced that there will be an “Amateur radio Operator day” proclamation given to the club by our city mayor on June 21st at the city council chambers. Anyone interested in coming should be there by 6:45pm at city hall. Presentation will be made at 7pm sharp.

With the coming PGA tournament at Whistling Straits comes an opportunity for anyone to work in a food tent, check in tent or other areas. The entry would be free and work shifts would be 4-5 hours each. After your shift you would be free to roam the grounds and watch the golf tournament. If interested call Fred W6BSF.

Our club is now a “Special Service Club” again thanks to Fred W6BSF. This award will have to be renewed every two years to keep it active.

There will be a Northwoods bike tour coming thru town on June 23-24th. Anyone interested in helping with your 2m mobile rig is welcome. Call Fred W6BSF for more information on this.

Reminder that our Field Day 2004 is fast approaching on June 26-27th. This will be held up on toboggan hill at Silver Creek park in Manitowoc. Interested hams can contact either John (NZ9Z), Dennis (W9DWN) or Fred (W6BSF) for more information. Hopefully ALL club members will come out for a good time during this field day event.

Mark Scheur (W9MV) who was once a member of our club along time ago and now living in Knoxville, Tenn. would like to be a member of ManCorad once again. A membership form was e-mailed to him.

The club decided to purchase 2 single band pass filters (40m and 20m) to hopefully eliminate interference between rigs during field days, etc. John (NZ9Z) will order them for the club.

Red N9GHE, Fred W6BSF and John NZ9Z all pitched in to help out disabled club member Glenn AA9MT get his antennas and

beam back up and running. A BIG Thanks to all 3 of them. This is what amateur radio is all about!

Carl (KA9WYK), Dan (N9NCU) and Steve (KB9GPN) gave the club an update on what they have done so far with the clubs library book project which will replace a lot of the outdated amateur radio books in our county libraries and most school libraries. Each new book will have a “donated by ManCoRad radio club” insert in them and information on how to contact the club for further information on amateur radio, etc. Money for this project was set up by a motion made by John (NZ9Z) and seconded by Dan (N9FVZ) to provide club monies for this project along with 3 club member verbal donations already received. Motion was carried unanimously.

Fred announced that Red (N9GHE) has sold his home and will be leaving the club after many, many years to reside in 3 Lakes, WI. up in YUPPER country. Red has done many thinks for the club and we wished him well by having a surprise cake in his honor. The club wishes him and his xyl all the best in their new home next to the lake.

Dennis (W9DWN) brought in another cake to celebrate his and Fred’s (W6BSF) May birthdays so now we have 2 cakes for our desert tonight.

John (NZ9Z) our club technical rep. presented a short talk on the new “Logbook of the world” logging/qls program. Thanks John for the talk.

Monthly membership drawing went to Mark (N9JZZ) who was NOT in attendance so the pot will increase for the next meeting.

Meeting was adjourned at 8:15pm by Fred (W6BSF). Lunch and cakes were served to all in attendance.

Respectively submitted
Theresa (KB9KXE), ManCorad club secretary

May 12th attendance roster

N9QFY Dick	W6BSF Fred
WB9GOY Mary	KB9KXF Gene
KA9WYK Carl	N9GHE Red
K9HAG Ken	NZ9Z John
W9DWN Dennis	KB9GPN Steve
KC9FVR Winston	N9AWG Rahlf
N9NCU Dan	KB9INK Bob
WB9DQD Gene	WD9ERO Ken
K9DUX Bill	

by Gene (KB9KXF) and Red (N9GHE).
Many upcoming events were listed and discussed. Following is a list of events which club members are encouraged to participate in. Contact people will be listed below.

1. June 21st Mayor Crawford is proclaim-

ing June 26th as American Radio Operators Day. This will be done at the city council meeting at 6:45 at City Hall. Members are encouraged to attend and will meet at 6:30 outside the chambers. Ours will be first on the agenda.

2. June 23-24th, Wed. and Thurs. the Northwoods Bike Tour will be in town. We will pick them up at Elk Hart Lake and travel with them through Manitowoc county. They will overnight at Lincoln High School. Contact is Fred.

3. June 26th and 27th Field Days at Silver Creek Park. Fred, John (NZ9Z) and Dennis have Toboggan Hill reserved for the 2 days. Discussion was held on the set up of trailers, tent and antennas and other equipment. This will be run as an emergency drill. Set up starts at 8:00 Sat. morning and tear down on Sunday afternoon. Saturday a fry out will be held for the supper hour. All members are encouraged to participate in any way they can. If coming for the meal, please bring a dish to pass. James (KB9GOX) will handle the frying. Any questions can be addressed to Fred.

4. July 17-18th Ships Afloat "USS Cobia" event. Sign up sheets will be ready next meeting. We will be operating on Sat till 5:00 and again on Sunday. As of now, no sleepover is being planned.

5. July 17th Kewaunee Troutman Bike Race If interested please contact James (KB9GOX).

6. July 24th and 25th Leukemia Bike-athon. As of now, Steve (N9PBL) has not contacted anyone if help is needed for this event. May have more next month.

7. August 7th Club's first brat fry at the CR Mobil Stop, corner of CR and Hwy C. Sign up sheet is coming. Contact Theresa (KB9KXE).

8. August 21-22nd. Rawley Point Lighthouse event. Still waiting for permission to transmit on the grounds from the Coast Guard.

9. August 28th Annual club family picnic. Held this year at Neshotah Park in Two Rivers. More info coming in the future. Contact Gene (KB9KXF) or Dan (N9FVZ). Our club is

Pres. Fred (W6BSF) opened the July meeting at 7:33 p.m. The minutes were approved as printed in the Badger Smoke Signals. Treas. Dick (N9QFY) gave the treasurers report which was also approved with motions by Dan (N9NCU) and John (NZ9Z).

With the help of Tom McNulty of Iowa a special certificate has been designed for all the participating boy scouts from Green Bay who were on the Cobia during the Cobia Event weekend. Each scout will receive his own certificate. The cost will be covered by Tom. A huge thank you to Tom for doing this!

This weekend is the Ships Afloat weekend. Contact Fred if you are interested in participating. They will be sending 9-5 on Saturday and 9-3 on Sunday.

The Kewaunee Troutman Bike race has been cancelled on the 17th.

July 24-25 is the annual Leukemia Bike a thon which we have participated in the past 11 years. Once again Steve (N9PBL) is organizing our part. Possibly will run the net control from the club shack. We will pick up the riders at Hika Bay on Sat. and follow up north on Sunday as far as volunteers can cover the rest

not working for the PGA golf outing in August. If interested you can contact the Sheboygan Red Cross. They are looking for help in the food stands.

John (NZ9Z) brought in the RF filters which he purchased for the club. They will be installed before Field Days and tried out then.

There will be an ARES/Races meeting on July 21st. Planning will be done for a drill in August with the Red Cross. We will have our own radio room with computer to use.

A discussion was held on purchasing climbing harnesses. John will order one for \$35.00.

The club was notified that very soon the antennae on the county tower would be changed by Ron Shimek. Also, our back up repeater is ready to go thanks to all the work done by Red and Franks Radio. Thank you to all involved.

Travis reported on a calling program named "Calling Post" to activate SkyWarn, Ares/Races members or other announcements needed. A 30 sec. message is recorded and given to each phone number on the calling list. This is done over the internet. Cost is \$9.00 for 200 calls. It was noted that too much time is need to call members the way we are doing it now. Motions were made by John and Shawn to give it a try. Travis will initiate the program.

Travis won \$6.00 in the attendance drawing. Congratulations!!!

The meeting closed at 8:40. Lunch was served.

Respectively submitted,
Theresa, Secretary, (KB9KXE)

Meeting Attendance:

W6BSF Fred	N9QFY Dick
KB9KXE Theresa	KC9AAH Shawn
K9HAG Ken	N9GHE Red
N4WGK Denise	N9NPX Roger
KB9GOY Mary	KB9GOX James
KA9WYK Carl	KB9GPN Steve
N9QFO Len	NZ9Z John
KB9KXF Gene	N9AWG Rahlf

stops. It would be good if members would have along water, extra batteries for the radios, brooms, all weather gear. If anyone would like to wear an orange vest for safety, the club has some to use. We will start around 10:00 on Sat and near 7:00 am on Sunday. Any and all help would be appreciated. Just sign in on either day with Steve.

The club is looking into getting magnetic signs which would identify the members as Ham Radio operators during events. ARRL has signs and we are also checking with Mr. Otek. More on this in the future.

All members are reminded of the first brat fry of the season. Aug. 7th at the CR Stop, corner of Hwy C and CR. Any and all help will be appreciated. We will start around 9:00 and go to around 4:00. This is a club event and everyone is encouraged to help. Please contact Theresa (KB9KXE), Dick (N9QFY) or Fred (W6BSF).

The Lighthouse Event has been approved for Aug 21-22nd. So plans are being made to operate from the Rawley Point Lighthouse grounds. We will be operating from 2 stations.

(Continued on page 7)

Mancorad Radio Club

(Continued from page 6)
New QSL cards are being made.
For all ARES/Races members-Meeting to be held on Wed. July 21st at the Club shack, at 7:00 pm. Discussion on the upcoming Red Cross drill set for Oct. will be on the agenda.
Travis (KB9YRC) gave a very informative report on the SkyWarn net and the following cleanup by the Red Cross after the tornado touch down last week. He thanked everyone who helped in any way.
Dan (N9NCU) gave a follow up report on the library books being purchased for the county libraries-public and all the middle school, junior and high schools too. A complete set will be given to the Manitowoc Public Library. Club cost should be 350.00 with donations from some members totaling 250.00. Help will be needed to distribute these books.
Fred showed a video of the recent proclamation made at City Hall recognizing all the good work done by the Ham Radio club members. Also shown was the report given by Channel 2 news on the Cobia Event. Thank you Fred.
Dick (N9QFY) is working on the Ham of the Year plaque. More to come in the future.
John (NZ9Z) reported on the climbing harnesses the club would like to purchase. Cost would be some where 180.00 with all the components included. A motion to purchase was made by Chris (KB9VCS) and Len (N9QFO). John will take care of this.
Vic (WB9VYO) was drawn for the attendance prize, but was not here. Pot goes to \$6.00.
The next meeting will be Aug. 11th at the club shack, 7:30. Lunch was served. Meeting adjourned at 8:42 pm.

Respectfully submitted
Theresa (KB9KXE), Secretary

Meeting Attendance
Theresa KB9KXE
Ken K9HAG
Mary KB9GOY
Travis KB9YRC
Dan N9NCU
Steve N9PBL
Chris KB9VLS
John NZ9Z
Gene KB9KXF
Chuck N9WUN
Dick KB9KEM
Len N9QFO
Fred W6BSF

Wisconsin Valley Radio Association

No information received for this issue from the WVRA. Hope to have more for the next issue

A grenade thrown into a kitchen in France would result in Linoleum Blown apart.

Always remember that you are unique. Just like everyone else.

Bicycles and Megacycles
by Richard Regent, K9GDF

Our energetic ARRL Section Manager, Don Michalski, **W9IXG**, will be taking a bicycle tour to retrace the journey on the trail that explorers Meriwether Lewis and William Clark discovered of the unmapped lands of North Dakota. CANDISC 2004: Cycling Around North Dakota in Sakakawea Country will cover 414 miles in 7 days, an average of 59 miles of peddling per day. The bicycling tour is not a race. Riders will cycle past unspoiled striking vistas and seemingly endless fields storing large rolls of hay, scenery having very few barns, and over roads in slightly rolling terrain. The tour will go on in any weather -- in hot sun or cool rain; while watching for potholes, gravel or crossing animals; and riding through swarms of insects. Riders will rest overnight camping in their individual tents.
Don's Section Manager administrative and communications duties will be set aside and be delegated for from July 31 through

August 7, 2004 while he enthusiastically enjoys bicycling, his favorite sport, and operating Amateur Radio QRP (communicating with a low power transmitter).
Since Don was first licensed in 1957, he has built lots of kits including many Heathkits, and particularly enjoys operating QRP. So recently Don ordered his new Elecraft KX1 kit, the ultra-portable CW transceiver. He said it can be build in few evenings, maybe in 25 hours of putting parts in the right places. This miniature transceiver operates 4 watts CW on 40 and 20 meters. Don is adding a plug-in module to allow for 30 meter operation. Battery power is from six AA cells which last 20 to 30 hours under constant operating. The receiver only draws 34 ma of current. Don might buy some fresh cells along way if necessary. The KX1 has a built in keyer and an attachable sending paddle.
Around 8:00 p.m. each evening, Don plans to throw the 24-foot antenna wire over a tree and then place the 16-foot counterpoise wire on the ground. This is the radio connection for contacting his friends back in Wisconsin on 7.040, 10.106 or 14.060 MHz QRP frequencies. A bicycle tour like this goes

through the rarest of North Dakota counties, so there will also be many contacts for County Hunters. Other tour riders, besides discovering the Trail, will certainly be enlightened to learn about Amateur Radio from Wisconsin's expert.

NEW VANITY FEE

New vanity fee goes into effect August 6: The FCC has announced that the new Amateur Radio vanity call sign regulatory fee of \$20.80 for the 10-year license term will go into effect August 6, 2004. Applicants for amateur vanity call signs will continue to pay the \$16.30 fee per vanity call sign application until the new fee goes into effect. All applications received at the FCC on or after August 6 must be accompanied by the new, higher fee.
from the ARRL Letter

clone, n:

1. An exact duplicate, as in "our product is a clone of their product."
2. A shoddy, spurious copy, as in "their product is a clone of our product."

ELMER

by Richard Regent, K9GDF



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WISCONSIN SECTION MANAGER REPORT

(Continued from page 5)
Amateurs; WK ARC with 15 operators in Oak Creek; Chippewa Valley and Eau Claire Amateur Radio Clubs working jointly with 18 operators! It was nice to have good weather and band conditions for this Field Day! And, again, I thank everyone who sent me a report.
** Gary Oaks, KB9VGD, from the Lakes Area ARC reports that the eSpotter is an experimental project in the central region area to facilitate the submission of spotter reports online. The system is being developed to enhance and increase timely & accurate online spotter reporting and communications between spotters and their local weather forecast offices. The use of the system is currently available for trained spotters and emergency managers.
** A reminder to all Emergency Coordinators that the deadline for taking the EmComm Level One course is the end of the year! Contact me if you need any help getting into a course. The \$45 fee is fully refundable to all ARRL members who take this valuable course.
** From our STM, K9LGU: FAQ #28 Where does undelivered traffic go? Unlike the Dead Letter Office, there's no Dead Radiogram Office, but there are a number of

options for the station attempting delivery. You have accepted a message for a local address. It turns out there's no such address. If the phone book doesn't work, the white pages on the Internet is no help, and questions around the local area don't yield any results, file the message at your station and send a message to the originating station. There's an ARRL numbered radiogram ready for you. You can usually find the name and address of the originating station on QRZ.com or through the ARRL site. The text of your message could read like this: ARL SIXTY SEVEN NO SUCH ADDRESS. FAQ#29 How can I get a list of stations that check into the section nets in Wisconsin? There's one linked to the Wisconsin web page of ARRL's site or you can ask your STM.
** More BPL: Dick Isely, W9GIG, Central Division Director, recommends this web site www.gobpl.com to anyone who wants to quickly learn about the multitude of problems inherent in the BPL technology being pushed by the FCC and its corporate enthusiasts.
** Have an active summer! 73, Don, W9IXG
ARRL Wisconsin Section Section Manager: Donald E. Michalski, W9IXG w9ixg@arrl.org

The Alliant Energy BPL test evaluation in Cedar Rapids, Iowa has concluded.

The BPL evaluation system went active on March 30, 2004 and was disabled on Friday afternoon, June 25, 2004. The system evaluated was manufactured by Amperion and included both overhead and underground BPL links. Daniel Hinz, Product Manager for Alliant Energy and project lead for the BPL test, said that Alliant Energy had completed its operational tests and a consultant had performed the proposed NRPM radiation tests.
Mr. Hinz said the primary purpose of this evaluation was to gain an understanding of the BPL technology and what issues might exist with the technology and a possible deployment in a real-world environment. He said that regulatory uncertainty, the interference complaints and other issues associated with the pilot all entered into the decision to end the pilot early.
Alliant Energy will be completing a written evaluation of their pilot and does not plan to deploy a BPL system at this time.

Five fixed Amateur Radio stations in proximity to the evaluation system and two mobile stations formally reported BPL interference on the HF bands. The Radio Amateurs and Alliant Energy cooperated by sharing interference information. Alliant Energy turned the BPL evaluation system off twice to allow collection of extensive BPL frequency and signal level data with and without BPL from W0SR. As Alliant Energy and Amperion tried various "notching" configurations, W0SR reported to Alliant Energy how these changed the interference received.
I personally thank Alliant Energy for their cooperation. And thanks also to the ARRL and the Cedar Rapids BPL Steering Committee for their knowledge and efforts in making a truly professional evaluation.
73, Jim Spencer W0SR

Check us out on the web at
Http://www.bsss.org

CLUB RADIO TOMABU IN ESTELI, NICARAGUA

John Jackson, N9BTM

For several years I have been working with a ham club in Esteli, Nicaragua and it has been very rewarding. I would like to take this opportunity to brief you about the challenges for our colleagues in less developed countries and hope to interest you in working with them or another club.
My work with our friends in Nicaragua started in the late 1970s when I worked on a project for the Wisconsin-Nicaragua Partners of the Americas
Club Radio Tomabu has been around for a long time. There are over 50 members in the club and another 20 in URAN (Union Radio Aficionados den Norte / on the north end of Esteli department). They have weekly meetings with a good turnout.
There is little technical or operating material available in the Spanish language, so some basic things like proper lengths for HF dipoles or how to make a 2 meter ground plane were not widely known. I have done a lot of tutoring each year I visit. If anyone else out there has Spanish language technical information or can write and translate, they need you.
The club has operated a repeater for many years. When I met them, it was hardly working, it had a lot of intermod, and locked up on itself if the power was set to more than a few watts. The repeater itself is a 30 year old Yaesu, the coax was stiff, cracking, and spliced RG-8 with poorly attached connectors, the antennas were jokes. The following year I got a donation from Times Microwave of a spool of LM-400, connectors, crimpers, etc, bought a couple decent antennas, and built a bandpass filter for the receiver.
The club is very interested in emergency communications as there is little commercial telecommunications outside the major towns and the area is subject to natural disasters. During my visits, I regularly heard hams on the 2 meter repeater or 7090 (the Central American intercom) looking for medicine or medical transport for someone in a remote area.
The club's big dream is to train and equip operators in the more remote villages that have no commercial telecommunications, so they will be able to provide emergency communications. This will require radios, antennas, and power supplies for those village operators. Some villages will need solar panels and batteries. They also need UHF rigs and controllers to link the two repeaters. Of course, they don't have any funds to do any of this. A great project for clubs in Wisconsin would be to sponsor a portion of this dream.
A good example of a club member is Rigo, YN8MP. Rigo is in his late 20s and is one of the most enthusiastic hams I have ever met. He runs the processing machine at the local Kodak monopoly, making about \$800 a year. He is married and has 2 young children. His house on the edge of town is about 16 x 20 feet, dirt floor, no water, no sewer, and no doors or windows. He had an ancient 2 meter HT with improvised external battery and a

10 watt military surplus HF radio (since died). We gave him a nice older 2 meter mobile with power supply and antenna the first year I brought things down. He hardly can keep his family fed and improve the house, but he dreams of fancy radios, a big tower, and big antennas. He scrimped, saved, and borrowed a couple years and last fall I took him a TS-130 and power supply I got for \$100 (couldn't get it free). My friend Wilford tells me that Rigo is on 2 meters and HF every day.
One of the most direct ways to help our colleagues is by donating older serviceable gear. Two meter FM and HF radios, power supplies, and other accessories are all needed. Those 20 year old radios that work fine, aren't worth much at hamfests, and are sitting in a box are just fine. HF radios like TS-130, TS-530, IC-730, etc are all great – don't forget the mic and power cable, if available (they won't be able to find or make them). We are also looking for good UHF FM gear to link the 2 meter repeaters. Of course cash helps too, to buy things like connectors, coax cable, and other supplies.
I have had good luck with companies like Times Microwave who gave about \$800 worth of coax / accessories and EMR who gave about \$2,000 worth of cavity filters and I will be working on some other companies. Some hams have been generous. As Wisconsin and Nicaragua are partner states and there are many partner cities (for example Stevens Point and Esteli are sister cities), I am taking advantage of my upcoming trip to Wisconsin to brief hams of the program in hopes that individuals or clubs will become interested in the effort. I would love to see some "partner ham clubs".
In the event that equipment is donated, the partners ship containers from Stevens Point to Nicaragua twice a year, the next should be November. Please box donations with good packing and label the box "CLUB RADIO TOMABU - - ESTELI". The partners can provide tax letters if you wish. Contact me for the latest information on who in the partners to contact to drop boxes off.
I am going down to Esteli at the end of July. I will be taking two sets of cavity filters for the repeaters, an HF rig, and some odds and ends. I have more space in my luggage and really need some 2 meter FM gear.
If anyone wants to contact me to discuss the program, my e-mail is john.jackson6@honeywell.com or you can call 1-800-528-0525 extension 4794 during MST business hours.
Editors Note: John is formerly from the Baraboo area. He has asked if we can help with this project. The above is taken from his letter. As we did not have space for the full letter, we plan to have the full letter, with pictures, on the BSSS web site bsss.org. If you are interested in helping with this project get in contact with John.

BADGER STATE SMOKE SIGNALS

Subscription Form
Regular Individual Subscription Rate
1 Year (6 issues): \$13.95
PLEASE PRINT ☐ New ☐ Renewal

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E-mail address: _____

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Send this form, with check or money order to:
Ken Ebnetter, 822 Wauona Trail, Portage, WI 53901.
Please do NOT send cash.

(Continued from page 4)					
K9UTQ	0	3	6	2	11
W9PVD	0	0	1	0	1

P S H R SUMMARY
MAY 2004

CALL	1	2	3	4	5	6	T
N9VE	40	40	30	310	90	0	510
K9JPS	33	40	10	180	0	0	263
WA9ZTY	40	40	30	10	125	0	245
AG9G	40	40	20	65	0	0	165
KB9KEG	40	40	20	40	0	10	150
KA9RZL	40	33	30	30	10	0	143
K9FHI	40	40	20	15	0	20	135
K9LGU	40	40	30	5	10	0	125
W9BHL	40	40	30	5	0	0	115
WD9FLJ	40	18	10	0	0	10	78
N9RGX	4	1	0	35	30	0	70
W9RSX	40	14	10	0	0	0	64

P S H R SUMMARY
JUNE 2004

CALL	1	2	3	4	5	6	T
WA9ZTY	40	40	30	5	130	0	250
K9JPS	35	40	10	110	0	0	195
KA9RZL	27	15	30	65	5	0	142
K9LGU	40	40	30	15	15	0	140
N9VE	8	40	30	55	5	0	138
N9RGX	2	3	0	100	5	20	130
K9FHI	40	40	30	10	0	0	120
AG9G	40	40	20	20	0	0	120
KB9KEG	40	40	20	50	10	0	110
W9BHL	40	40	30	0	0	0	110
W9CBE	40	40	20	0	0	0	100
W9RCW	30	30	30	0	0	0	90
K9DQ	5	5	0	70	5	0	85
W9RSX	40	11	10	0	0	0	61

The Computer Corner
No. 117.

(Continued from page 5)

C:\MYSTUFF\PHOTOS, and so on. If you create a file and it doesn’t get put in the proper MYSTUFF location, move it there immediately! Put any creations made before your new reorganization in their proper places, too.

Now, you have segregated all of your creations in one place. The folder C:\MYSTUFF is that place. Yes, it has subfolders, but that doesn’t matter. When you want to do a backup on CD-ROM, simply drag the MYSTUFF folder to the burn window and all the subfolders will be there, too. One stop shopping! Couldn’t be easier.

Hey, don’t forget to export your browser’s address book, and favorites, too. Put them in a BACKUP subfolder under MYSTUFF. Now, if you ever loose them, you have backup copies that can easily be re-imported. You’ll think of other things to put in the BACKUP subfolder, too.

Now you can do a backup in about 10 minutes, because you are saving only what is contained in MYSTUFF. And, since it is so easy and painless, you can do it once a month. Oh, you will find you waste a lot of unused space on that backup CD when you burn it. When I was really busy with the SEC and Chief Radio Officer jobs for the state, all my backups took less than 40% of a 650 MB CD-ROM.

But the wasted space is OK. CDs are inexpensive these days, and using one a month serves the intended purpose. Don’t be tempted to overwrite them. Make one for each month – 12 a year. That way, you will have historical data, too.

I should make one more suggestion. For those really important files, such as a newly modified spreadsheet file containing your investment data, don’t wait until the end of the month when you make your CD-ROM backup. Back up that file right now, to a floppy. Floppies are still the best way to do a quick, temporary backup. Just right-click the filename and select Send To, then 3½ Floppy (A) from the menu. Be sure to have a clean, formatted floppy in the drive when you do this. Yes, it will fit! The entire RACES database, listing all 1,350 hams in Wisconsin ARES/RACES (call, name, address, city, state, zip, area code and phone number, class of license and date added to the database) took under one-third the space available on a standard floppy. So, your data will likely fit. Watch out for photos and other graphics files, though. They take a lot of space and may well not fit on a 1.44 MB floppy. Those will need to wait until you do a CD backup.

That quick backup will let you sleep better! Then, you can make the more permanent backup on CD at the regular monthly time, when you copy all of MYSTUFF. Happy computing!

Ham Implementation of 802.11
Packet Radio

(Continued from page 10)

consider that the general public is also allowed and encouraged to use this technology. While some of these wireless ethernet channels lie in the ham bands, Part 15 users are still allowed to use these channels. Not only do you have to deal with hams using this technology, but with the general public as well.

While we are allowed to use higher radiation power levels than the general public, that's little comfort when you're trying to use an already crowded channel. In order to minimize these problems, hams have come up with an rather simple way to help with these problems.

Most users of this band rely on vertically-polarized antennas that come with the wireless card. Antenna connectors are a little difficult to find for most people, so unless they really see a

need, they leave them as they are. In the rare case that a "general public" wireless ethernet user needs to increase range, they may use an external antenna. In order to effectively operate with other wireless users, they also use vertical antenna polarization.

Hams have decided that one way to peacefully co-exist with these users is to orient our antennas horizontally. Cross-polarization is not a perfect means of making what we regard as "interference" go away, it surely does help substantially. If you've ever tried using vertical polarization when using VHF SSB, you know that it works much better when everyone uses the same antenna polarization, in that case horizontal polarization.

And that's where we'll leave our discussion for this time. Next time, we'll look at some of the antennas used by hams in the 802.11 world. Until then, 73 from Andy.

Packet Radio IP Address Coordination Update

For those of you who may be new to packet radio, or just maybe have never investigated it, an IP address is a numerical address given to a computer that operates on the internet. IP addresses are also issued to computers owned by persons who wish to use TCP/IP protocols and services on conventional AX.25 packet radio. In our area, IP addresses start with 44.92 as the first two of four sets of numbers. One of my own IP addresses is 44.92.20.9, for example.

As some of you may know, I am also the IP address coordinator for the state of Wisconsin and the Upper Peninsula of Michigan. While this is not exactly a WAPR function, it is advantageous to be very close to WAPR as there is a lot of information that is used in both of my positions. However, I am writing in this article about IP coordination issues outside of the scope of WAPR, but with knowledge that WAPR is affected as well. This perspective has allowed me to have unique views of the current IP address coordination system as it relates to Packet Radio as we now know it.

One observation that I and many others have made is that conventional AX.25 packet, while usable and sparsely populated, seems to be slowly moving toward APRS as it's main use. Many operators have put their TNCs and radios in a closet, sold them, or just stopped using them. That's also true of many people who used to operate TCP/IP on conventional AX.25 packet radio.

Coincident with the "fade-out" of conventional AX.25 packet operation is an expected increase in 802.11 activity. As this is a system that utilizes TCP/IP, persons wishing to use this technology will need an IP address.

Which brings me to the current situation. While there are the occasional persons contacting me to obtain an IP address, very few people ever inform me that they are relinquishing their IP address(es). Of course, some of these folks have passed on and can't let me know they are gone. However, there are still many hams who are alive and well and have forgotten to let me know this. In some cases, they have even forgotten that they have an active IP address.

That means that there are many, many inactive IP addresses on the books that can be cleared, if I knew which ones were no longer being used. In the Milwaukee subnet for example, I am almost certain that nearly 75% of the currently listed addresses are inactive. I suspect that this holds true for a number of other subnets. Note that we

aren't in danger of running out of IP addresses, but there are certain problems that could come up in the future that will require a re-working of the system. I'd like to stop potential problems before they even have a chance to develop.

As a result, the coming months will see me attempting to contact all of the current IP address holders and ask what their current status is. Are they active? Do they plan to be active? Are thy no longer interested in having an IP address assigned to them? These are the questions that need to be answered so that the IP address database can be "cleaned up".

I would like to reassure those current active IP address holders that they will not be asked to relinquish their addresses. In some cases, it may be necessary to change an IP address. This is done to conform to networking conventions in use on the internet. As any TCP/IP system (whether it be AX.25-based, 802.11-based or the Internet itself) requires an IP address, it only makes sense to assign these addresses in a logical, standards-based manner.

So don't worry - if I contact you in the coming months, it doesn't mean that you'll lose your IP address. I only drop or modify IP addresses if I get permission from the address holder, or I am reasonably certain that we will never hear from them again. Even if you plan to use an IP address far in the future, it is still OK to hang on to it.

In addition to long-term IP address assignments, I will also be designating certain blocks of IP addresses for "lease" (Dynamic IP address assignment). This means that if a person doesn't want to operate a full-time IP station, they can receive a temporary assignment of an address from a pool of addresses set aside specifically for that purpose. This is what happens when you dial in or connect to your ISP - you temporarily use an IP address until you are done with your internet activities. That address is assigned to another person, also temporarily, until they no longer need it.

From time-to-time, I'll be updating you on the progress of the clean-up, and may even ask for help locating certain people. I hope you can help me with some of this. If you are currently not using your assigned IP address and would like to relinquish it, please send me an E-Mail note letting me know this at:

kb9aln@gbonline.com
Until the next update, 73 from Andy.



THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association
Allen Schnepf, N0GMJ, Treasurer
Ogema, WI 54459

Andy Nemec, KB9ALN, Editor—453 Cottage Grove Avenue—Green Bay, WI 54304—e-mail: kb9aln@gbonline.com

WAPR News - August 2004 by Andy Nemec, KB9ALN

Welcome to the Dog Days of Summer - the wet Dog Days. Hope you've been able to get some fun in between the raindrops.

Last issue, I was not able to put anything in the way of WAPR or packet radio info into the Badger State Smoke Signals. My schedule - and my life in general - has become very busy these days. The fact that there just isn't much packet activity to report on lately has made me consider making this column a quarterly feature. I've made no decision as of yet, and will be talking this over with a few other people before a decision is made one way or the other. I'll let you know what I decide in the next issue.

For now, on to news...

Manitowoc Node Stack Sold

As you know, Red N9GHE had a packet BBS and node stack in Manitowoc for years, and decided to retire a couple of years ago, and moved "Up North". His node stack has found a new home in Racine. Jim, KB9MMC has purchased it and is in the process of getting it on the air. No news yet on node aliases nor any other details, but will have more when I know it.

Algoma Nodes Off-Air

Anyone who has been watching the weather lately has likely come to the same conclusion that I have - it's been Whacky. In addition to a greater-than-average number of tornadoes, we've been flooded and blown around by wind and storms. The Algoma Nodestack was barely rescued from certain death in the nick of time by Rick, WB9RJB when he went to check on the status of his 146.805 voice repeater receive site in Algoma. Seems that it was no longer working, and he found that it had been hit by water rushing into the basement through a crack in the wall! The node stack shares the site (in a separate cabinet). While the remote receiver will need time to dry out and be repaired, it appears that the node stack may have been spared. He didn't have time to check it out when he was there, but says it didn't see much water at all. Thanks to Rick for the rescue from certain drowning.

Rick does tell me that he may relocate both the receive site and the node stack. I will

update you on that if or when it happens.

Update: It appears that everyone was very lucky on this. I just received a phone call from Rick that the site has been dried out and all of the equipment was spared! This is truly good news.

News from the North

Leroy, N8WQG has been visiting my packet station and has been leaving me updates on the packet situation in the U.P. Which means that I must apologize for the lateness of my replies to him, of course. It seems that there is some good activity happening up there, along with the usual weak spots.

The great news is that a lot of the UP network is still alive and kicking. The folks up there have been using and, to a limited extent, expanding the network to relay weather spotting reports to the Marquette office of the National Weather Service. They have been completing some links (on a temporary basis) through a digipeater.

They're still having problems with the CMX nodes, however. These nodes link the U.P. with nodes in Canada. There are weak links to that system of nodes, and Leroy tells me that he is trying to strengthen that link as well as other UHF links.

That's about all of the news I have for this time out. Until next time, 73 from Andy.

Ham Implementation of 802.11 Packet Radio by Andy Nemec, KB9ALN

Our last feature consisted of a short introduction to 802.11 technology. While not an in-depth exploration, it was enough to give you an idea of what 802.11 is. This time out, we'll take a look at ham implementations of this technology, the hardware in a wireless network, and we'll compare it to what we use in the AX.25 world. Nothing Without a Network

The whole point of having the ability to hook one computer up to another is to transfer files, E-Mail and engage in other activities, such as web browsing. Obviously, we can connect two computers together and do some of this stuff but unless the other computer is connected to some sort of network, we're not going to have much fun for very long.

Yes, technically, two computers do comprise a network. However, to be truly useful, more is better (to a point, we'll get to that later). Another factor is the proximity of one

computer to the next. 802.11 technologies are short-range, for the most part. Therefore, some sort of network is needed to expand the effective range, and the usefulness of our 802.11 wireless card. In short, these devices are nothing if we operate a pair of them without some sort of network infrastructure.

Looking at Network Hardware and Functions

What would an 802.11 network consist of, or look like? We already know about the wireless cards. One home computer with a wireless card can connect to another, of course. But what if you wish to make a network to serve multiple users, and want to connect to the internet as well? Here is a short introduction to some of the pieces of hardware that comprise a typical system, what they are, and what they do.

Wireless Access Point (WAP) A WAP can be a regular home computer with one or more wireless ethernet cards installed, but more often is a stand-alone box with a built-in wireless ethernet transceiver. In addition, it may also have a port to connect it to another network device, such as a router, dial-up or DSL modem.

The type of hardware is less important than the function it performs. It simply allows users to connect to each other or to another network. That network can be the internet or some other, segregated network. Router A router is a multi-port device (really a dedicated computer) that interconnects networks. Generally, it connects a number of smaller networks together, and/or to a larger one. Routers also join parts of the Internet together.

These days, a lot of people have had exposure to a router because they have their own home network. They generally have a bunch of RJ-45 connectors for ethernet cables. Wireless routers may have one or more. Most wireless routers are considered Wireless Access Points.

The Internet Backbone This is the collection of wires, fiber-optic cables, routers and other hardware that comprise the main "highway" that internet data travels on. It is very high-speed, in the gigabit-per-second range.

So, we now know that we need a wireless access point, routers to see to it that packets are sent to the right place, and a bunch of hardware, with or without wires, to transport our data. Surprisingly, this all looks remarka-

bly similar to regular packet radio in a number of ways. Of course the hardware is different, but the functions that these hardware pieces perform are very close to what we've used in the past with AX.25 packet radio. Follow the analogies blow to see what I mean.

Wireless Card = TNC and Radio This is a simple one to see. The wireless card has a radio in it, and it is controlled by firmware and a processor that formats information so that it can be more easily sent via radio. That's pretty much what a radio and TNC do. WAP/ Gateway/Router = Local VHF LAN node The Wireless Access Point (WAP) is the entry point into the network - whether it is more 802.11-equipped devices or the internet itself. That's what a typical VHF LAN node does with AX.25 packet radio. It provides an access point to a network of backbone nodes or users. While the VHF LAN node doesn't possess the advanced routing capabilities that a wireless router has, it does provide rudimentary routing services. When you connect to a VHF LAN node and issue the "N" command, you are returned a list of other nodes that it knows how to get to. The VHF LAN node has a "table" of nodes and paths it needs to use to connect up to them. This is what happens with a wireless access point or wireless router - it knows what's out there and how to get to it. Internet Backbone and Routers = Backbone Node Network The Internet may be a (mostly) wired medium, but it still needs to know how to get from one point to the next so that clients can use it. Same with AX.25 packet radio - without the wires, of course. Net/Rom nodes serve as transporters of your packet. In order to know how to get the packet from point A to point B, it has to know about itself - what makes up the network and how to get to other parts of it. Same with the internet - only it's more thorough and automatic than Net/Rom nodes are. It transports data packets and knows it's way around itself so that it can do this job. More is Better? You'd think that having more wireless access points, routers and the like would be better. This is not always so.

The same old radio channel usage issues come up with 802.11 technologies as with garden-variety AX.25 packet radio. The more "stations" (computers) that are on the network, the more usage a given channel sees. While the effect of this is somewhat mitigated by the use of spread-spectrum transmission methods, the number of users on a given channel still is a factor that affects data throughput.

This is especially apparent when you

(Continued on page 9)



Yellow Thunder Amateur Radio Club



WB9FDZ (Original Club Call)
K9ODK (Robert L. Prine Memorial Call)
Club net: Sundays 8:00 p.m. on 147.315
Robert Loomis, KB9VSQ, Secretary
108 Scarlet Ct., Reedsburg, WI 53959
YTARC Home Page: <http://www.qsl.net/ytarc/>

Yellow Thunder Amateur Radio Club
Minutes
June 3, 2004

Our illustrious President Steven Schulze, N9UDO, called the meeting to order at 1900 (7:00p.m. local) on the corner of Broadway and Fifth Street in beautiful downtown Baraboo WI.

There was no treasurer's report due to the absence of Bill Klinkner, N9KXX.

May minutes were presented in print format to all members present. (Thanks to Rich N9ROY for covering for me.)

Old business

Field day was discussed; it is to be held at Owen Park on June 24 and 25. A letter will

be sent to the Columbia County Sheriff along with a copy of Columbia County board resolution 47-84 to secure use of said park.

New Business

Circus Parade is coming up on July 3 in Baraboo and volunteers are needed for communications.

Meeting adjourned at 1918 (7:18p.m. local)

Next meeting will be Tuesday July 6, 2004 at 1900 (7:00p.m.) in the EOC in the basement of the Sauk County Court House in Baraboo WI.

Respectfully Submitted
Robert Loomis KB9VSQ
YTARC Secretary

Amateur Radio Technician License Workshop Madison, WI

This is an announcement for the upcoming Space Place Amateur Radio Technician License Workshop, September 18 and September 19, 2004. The weekend workshop is a proved and effective way to get started in ham radio, and ham radio will be a very rewarding hobby for you.

Remember, when all else fails, in an emergency, there are always Amateur Radio operators providing communications!

We will use email for as much of the correspondence as possible, which helps keep our costs down. You will help us if you do the same, if you can, and send any questions or other correspondence to n9uw@sal.wisc.edu. If you cannot readily use email, send mail to:

Space Place Amateur License Workshop 1605
S. Park St. Madison, WI 53715

Registration is, also, available via www.sal.wisc.edu/spaceplace/spaceplace/index.html#s or email n9uw@sal.wisc.edu. There is no charge for this workshop. However, you are required to obtain the book entitled "Now You're Talking" (5th edition. \$20). Earlier editions do not contain up-to-date materials and will not properly prepare you for the license exams. You can purchase "Now You're Talking" from the ARRL, www.arrl.org/ catalog or call 888-277-5289 or Amateur Electronic Supply in Milwaukee. Phone 800-558-0411 or use their web site: www.aesham.com. I, also, understand that Border's Book Store carries the book. You'll find that this book is truly a good investment, for its reference and operational material will continue to be useful to you long after you have acquired your ham radio license. The book is, also, available on loan

from the Four Lakes Amateur Radio Club library.

Please get this book ASAP, if you register for the workshop! The book is designed for self-study, and you will find it easy to use. Just start at the front and forge ahead! As the workshop weekend approaches we will send you a syllabus to tell you what material will be covered in the workshop sessions. We cannot, however, cover all the material in adequate depth in two days; therefore your home study is a must!! Note also that there will be several experienced instructors (all volunteers) teaching different sections of the course and presenting many aspects of the fascinating hobby of ham radio. We will also use the facilities of the Space Place Amateur Radio Center to demonstrate some basic equipment and procedures for you.

The workshop schedule is:
Saturday, September 18, 8 AM to 5 PM;
Sunday, September 19, 9 AM to 5 PM.

A Technician license exam, plus an optional 5 wpm code test, will be given from 3-5 PM on that Sunday. If you want to take the exam (and why not? You'll never be better prepared!) The FCC-required fee is \$12.00. A check or money order in that amount is preferable to cash. Also bring two forms of identification; one must be a photo ID. We will take a lunch break (Dutch treat) plus other breaks, each day. There is an Arby's next door to U.W. Space Place (1605 South Park Street). You may bring your own lunch if you prefer. Refreshments and snacks will be provided at Space Place.

Any questions?
73, (best regards)

Don Michalski, W9IXG, Coordinator
(608)263-4685 (day)
(608)274-1886 (evenings)
w9ixg@arrl.org

2004 WISCONSIN QSO PARTY RESULTS

www.warac.org

Results wise, a single word best describes the results - DejaVu. For the second time in a row, the 2003 highest scoring WI single operator repeated his mobile CW station excursion to take the in-state 2004 plaque, and the same club that won in 2003 won our club competition again in 2004.

The 2004 plaque for the highest scoring Single Operator in Wisconsin goes to all CW entry Larry Hammel, K5OT

The 2004 plaque for the Wisconsin Club Competition goes to the Fond du Lac Amateur Radio Club. (see front page)

The 2004 plaque for the highest scoring Single Operator outside of Wisconsin goes to Jim Stahl, K8MR.

The Single Operator Fixed category, our most popular category, was won by Chad Kurszewski, WE9V.

The Multi Operator Technician category was won by the N9PJQ team from Fond du Lac. consisting of Edward Beltz, N9PJQ, Peter Fox, KB9WZD, and Andrew Martin, KB9ZLL,

The Multi Operator Fixed category was won by the KF9GP team from Green Bay. Operators Steven Kittell, KF9GP, and Jacob Derenne, W9BLI

Multi Operator Mobile category was won by K8IR, team of James Callow, K8IR, and Edward Engleman, KG8CX

The winning Multi Operator Multi Transmitter Fixed category entry team was of K9OT, Paul

DeWitte, K9OT, Peg Haese, KB9LIE, James Rounds, K9WA, Kevin Anderson, K9IUA, Larry Pink, KC9CSQ, William Halse, N9CDX, Jeffrey Woods, WOODS and John Wulf, KE0FT.

The Multi Operator Multi Transmitter Mobile category winning entry was from last years winner of the Multi Operator Mobile category. W9HB, ops Harold Burt, W9HB, and Roger Scott, KF9D.

The above information is taken from the official results from the 2004 Wisconsin QSO Party results posted on the West Allis Amateur Radio Club site by Chairman Lynn Tamblyn, K9KR. To find out how you or your club did in this years contest see the WARAC web site www.warac.org for the full listing of scores and comments.



Lynn Tamblyn, K9KR, Wisconsin QSO party Chairman presents the winning single operator plaque to Larry Hammel, K5OT

Seventh Annual!

CIRCUS CITY SWAPFEST

Sponsored by:
Yellow Thunder Amateur Radio Club, Inc.

Ham Radio, Computer & Electronics Extravaganza!

SATURDAY, AUGUST 14, 2004
7:00AM UNTIL NOON

Sauk County Fairgrounds - Baraboo, Wisconsin

Vendors * Tail-Gate Area

Concessions * Free Parking * Camping

\$5 Admission, \$4 In Advance - 8 Foot Tables \$5 Each

(1 Admission Included Per Table - ADVANCE SALES ONLY) - Set-up 6:00AM

VE Testing

9:00 am Code - 10:00 am Written

Talk-In

147.315 Repeater
+600 input w/123.0 PL
WB9FDZ

The Sauk County Fairgrounds is located on highway 33, on Baraboo's far east side.
From I-90/94: Take exit 106 (Hwy. 33) west to Baraboo.

From Hwy. 12: Take Hwy. 33 east at the Kwik-Trip in West Baraboo.

For more information contact: Steve, N9UDO at (608) 356-2313 or n9udo@yahoo.com
Bill, N9KXX at (608) 643-6908 days, (608) 643-6453 evenings.

Visit us on the Internet: www.qsl.net/ytarc/hamfest.htm

For Advance Tickets, Send Check With A Self Addressed Stamped Envelope to:
Yellow Thunder A.R.C., 1120 City View Road - Baraboo, WI 53913

Company Name: _____ Phone #: _____

Contact Person: _____ Call Sign: _____

Address: _____ E-MAIL: _____



City: _____ State: _____ Zip: _____

No. Of Tickets: _____ X \$4.00= _____ Electricity Required? Y / N

No. Of Tables: _____ X \$5.00= _____ Total Amount Enclosed= _____
(one complimentary admission ticket with the purchase of each table - ADVANCE SALES ONLY)

Buy it! • Sell it • Trade it • Fix it

SWAPFESTS

 <p>2002 WINNER Michael J. Haessler, KB9TG Waupaca, WI.</p> <p>32nd ANNUAL MIDWINTER SWAPFEST WAUKESHA EXPOSITION CENTER WAUKESHA, WISCONSIN SATURDAY JANUARY 8, 2005</p> <p><i>Both sponsored by: THE WEST ALLIS RADIO AMATEUR CLUB, INC. P. O. BOX 1072 • MILWAUKEE, WISCONSIN 53201</i></p>	<p><i>HAM IT UP EVERY SPRING!</i> MADISON SWAPFEST Mandt Community Center <i>APRIL , 2005</i> 400 Mandt Parkway Stoughton WI Doors open at 8 a.m. Sponsored by MARA/W9HSY P. O. Box 8890 Madison, WI 53708-8890 swapfest Information Line. (608) 245-8890</p>	<p>SOUTH MILWAUKEE AMATEUR RADIO CLUB SWAPFEST 04 JULY , 2005 (Held every July) <i>American Legion Park Shepard Avenue • Oak Creek, WI</i> (414) 762-3235 Ask for Verne P.O. Box 102 South Milwaukee, WI 53172 e-mail ryatex@aol.com</p>		
<p>SEWFARS SWAPFEST HAM RADIOS • COMPUTERS • ELECTRONICS AMATEUR LICENSE EXAMS</p> <p>APRIL , 2005</p> <p>Setup starts at 6:00 A.M. For more information, call (262) 742-4903</p>	<p>The Chicago FM Club presents RADIO EXPO 2004 September 18-19, 2004 Lake County Fairgrounds, Rts. 45 and 120 Grayslake, Illinois Free parking • Amateur Exams • Talkin 146.16/76 Info Voice mail and FAX: (708) 457-0966 http://www.chicagofmclub.org P.O. Box 56784, Harwood Heights, IL 60656-0724</p>	<p>TRI-COUNTY ARC PRESENTS HAMFEST 2004 March , 2005 YOUR SPRING FAVORITE ! www.cmdline.com/tcarc/ TCARC 213 Frederick St (920) 563-6381 Fort Atkinson, WI 53538 Evenings</p>		
 <p>NS9RC <i>fest</i> formerly known as LAMARfest Lake County Fairgrounds, Grayslake, Illinois Radio, Electronic, Computer Swapfest www.ns9rc.org</p> <p>MARCH , 2005 Grayslake, IL</p>	<p>Eau Claire Amateur Radio Club HAMFEST 2004 Saturday, September 11, 2004</p> <p>For Information Contact: Steve Bluem at (715)839-6509 ka9omy@arri.net ECARC P.O. Box 1867, Eau Claire. WI 54702-1867</p>	<p>The Milwaukee Repeater Club presents AMATEUR RADIO FEST 2004 November 06 2004</p> <p>Waukesha County Expo Center Forum Buildings For more information, see: http://www.mrc91.org e-mail mrc@mrc91.org or call (414) 526-7011</p>		
<p>Ozaukee Radio Club 23rd ANNUAL RADIO AND COMPUTER SWAPFEST MAY , 2005 8 a.m. to 1 p.m. • Circle B Recreation Center Intersection of Highway 60 and County I Exams by Badger Examiners, c/o Gary Sharbuno, 5119 W, Willow Rd., Brown Deer, WI 53222 Swapfest sponsored by the Ozaukee Radio Club W55 N865 Cedar Ridge Drive • Cedarburg WI 53012</p>	<p>Circus City Swapfest Sponsored by the Yellow Thunder Amateur Radio Club Saturday, August 14, 2004 • 7 am—Noon Sauk County Fairgrounds • Baraboo, WI</p> <table border="1"> <tr> <td>Vendors • Concessions Camping • Free Parking Tail Gate Area</td> <td>\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables</td> </tr> </table> <p>Steve Schulze, N9UDO • Bill Klinkner, N9KXX (606) 356-2313 • (608) 643-6908/643-6453 http://www.qsl.net/ytarc/hamfest.htm,</p>	Vendors • Concessions Camping • Free Parking Tail Gate Area	\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables	<p>SOUTH MILWAUKEE AMATEUR RADIO CLUB AUCTION Amateur Radio, Computers & Electronics Wed. OCTOBER 6, 2004, 6:00 p.m. <i>American Legion Post 434 Shepard Avenue • Oak Creek, WI</i> (414) 762-3235 Ask for Verne P.O. Box 102 South Milwaukee, WI 53172 e-mail: ryatex@aol.com</p>
Vendors • Concessions Camping • Free Parking Tail Gate Area	\$4.00 — Advanced \$5.00 — At Gate \$5.00 — 8 foot tables			

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BADGER STATE SMOKE SIGNALS

WEB EDITION — EXTRA PAGES



WA9SAB, 920.563.6381.

Grafton
Ozaukee Radio Club (ORC) Second Wednesday of each month at 7:30 p.m. Grafton Multipurpose Senior Center, 1665 7th. Ave., Grafton, Wisconsin www.qsl.net/orc/.

Green Bay
GREEN BAY MIKE AND KEY CLUB Meetings: Second Thursdays, 7:30 p.m., Media Services area of J. M. Science Building at St. Norbert College in DePere. Information: Kevin at kb9sne@yahoo.com.

Green Lake
GREEN FOX AMATEUR RADIO CLUB Greater Green Lake County area. Meetings: Third Mondays, 7:30 p.m., Green Lake Town Hall, intersection of County Highways K and N.

Hudson
St. CROIX VALLEY RADIO AMATEURS Meetings: Third Tuesdays, St. Croix County Emergency Government Center, Carmichael Road, Hudson. Short business meeting at 7:30 p.m. followed by program. Talkin: 145.13 MHz. All are welcome!

Juneau
ROCK RIVER RADIO CLUB Meetings: First Tuesdays, 7:30 p.m., Dodge County Administration Building, 127 East Oak Street, Juneau, WI. ARES Nets: 146.64 (-600) Mondays, 7:30 p.m., Saturdays, 7277 KHz, 10:30 a.m.

Madison
SPACE PLACE AMATEUR RADIO CENTER No meetings. Located on U.W.-Madison campus. Guest operators are welcome to operate the U.W. Space Place Amateur Radio Station, N9UW. Information: Don Michalski, W9IXG, President, (608) 263-4685. Email: n9uw@sal.wisc.edu.

Madison
BADGER AMATEUR RADIO SOCIETY University of Wisconsin - Madison/W9YT Meetings: Third Mondays at 7:00 p.m. in UW Union South. Room number posted on the Today in The Union board. Information: Don Michalski, W9IXG, (608) 263-4685. Email: w9ixg@arrl.org. Web: <http://www.qsl.net/w9yt>.

Madison
Madison DX Club, meetings are on every fourth Tuesday of each month; see <http://madisondxclub> for more details.

Madison
FOUR LAKES AMATEUR RADIO CLUB Meetings: Third Tuesdays, 7:30 p.m., Red Cross Building, 4860 Sheboygan Avenue, Room C, downstairs. First building west of Hill Farms State Office Building.

Manitowoc
MANITOWOC COUNTY RADIO AMATEURS (ManCoRad) Second Wednesday of each month. Club board meets at 6:30 p.m., and Regular meeting is at 7:30 p.m., at 1105 Fleetwood Drive, 2nd floor (Old County Shop building on northwest side of city.) For Additional information please see our club web-site www.qsl.net/w9dk or contact Fred Neuenfeldt, W6BSF, (920) 682-9312. Email: w6bsf@arrl.net.

Marinette WI
Menominee MI
Amateur Radio Club Meetings held second Thursday 7:00PM each month BAMC Tenth Avenue Menominee Michigan in the basement. Guests welcome e-mail secretary ke9ad@arrl.net

Medford
Black River Amateur Radio Association Meetings: Normally the first Thursday of each month. Usual meeting time is 7 PM. Most meetings are held at the Taylor County Courthouse. Directions: Those attending should park in the main courthouse parking lot on the east side of the building, and enter using the main courthouse entrance or the sheriff's dept. entrance. Proceed to the lower level of the courthouse using the stairs or elevator. We meet in the "break room" on the lower level, near the Emergency Government office. Talk-in on the 147.15 repeater (114.8 Hz PL, +600 kHz offset) and 146.52 MHz simplex. Contact: Mike Schoenfuss, N9GHZ, P.O. Box 401, Abbotsford, WI 54405. Phone: (715) 223-3996.

Menomonee Falls
FALLS AMATEUR RADIO CLUB, INC. Meetings: Last Wednesdays at Bank One building in Germantown. Doors open 7 p.m. Meeting time: 7:30 p.m. Guests are welcome!

Menomonie WI
Saturday coffee at Burger King, 544 Main Street, at 9 a.m. Social hour on 4th Tuesdays at 7:00 p.m. at the Depot, 2616 Hills Court, north of Walmart on highway 25 North, in January, March, April, and September through November. Guests welcome!

Milwaukee
GREATER MILWAUKEE DX ASSOCIATION Meetings: Fourth Monday of month, 7:30 p.m. Contact any GMDXA member, or Gary Schwartz, K9GS, (262) 363-4439. Email: garyk9gs@arrl.net.

Milwaukee
MILWAUKEE RADIO AMATEURS CLUB Meetings: Last Thursdays, 7:00 p.m. Redemption Lutheran Church, 4057 North Mayfair Road, Wauwatosa, WI. Mailing address: P.O. Box 070695, Milwaukee, WI 53207. Web: <http://www.qsl.net/mrac> . Email: w9rh@arrl.net.

Monomonie
RED CEDAR REPEATER ASSOCIATION, INC. Saturday coffee at Hardee's in North Monomonie, corner of Highways 12 and 25 at 9 a.m. Social hour on 4th Tuesdays at 7:30 p.m. at the Peppermill Too, 1414 9th Street in the L-Mart Shopping Center in January, March, April, and September through November. Guests welcome!

Northeast Area
NORTHEAST WISCONSIN DX ASSOCIATION Meetings quarterly: April 28, Marinette; August 25, Fox Valley; November 10, Green Bay. For specific information about meetings, check <http://home.new.rr.com/newdx/>. Contact us at w9dxa@arrl.net.

Oak Creek
SOUTH MILWAUKEE AMATEUR RADIO CLUB Meetings: First Wednesdays, Legion Post #434, Shepard Ave., Oak Creek, WI. In March and October the meetings are turned into Auction Nights. Swapfest July 6, 2002. The club WEB site is www.qsl.net/wa9txe

Onalaska
RIVERLAND AMATEUR RADIO CLUB Meetings: First Tuesdays, 7 p.m., Onalaska Community Center. More information: <http://www.qsl.net/wr9arc/> . Email: wr9arc@qsl.net.

QCWA Chapter 162
QUARTER CENTURY WIRELESS ASSOCIATION (QCWA) Southeastern Wisconsin Chapter 162. Meetings: Third Monday in January, March, May, July, September, and November, 7:30 p.m., usually at Meadows Restaurant, Franksville, WI. Social events: Third Sundays in February, April, June, August, and October. Christmas party: Usually second or third Sunday in December.

QCWA Chapter 55
QUARTER CENTURY WIRELESS ASSOCIATION (QCWA) Wisconsin Chapter 55 meets the first Saturday of June and October. For information about Chapter 55, contact Ron Yokes, W9BCK, Secretary, 612 N. Pt Washington Road, Grafton, WI 53024-9703. (262) 375-1774. <mailto:roryokes@execpc.com>. Saturday, October 4, 2003, Watertown Moose Club, Watertown, WI.

Racine
LAKESHORE REPEATER ASSOCIATION Meetings: Last Tuesday, January, April, July, October. American Red Cross Building, 4521 Taylor Ave., Racine, WI.

Racine
RACINE MEGACYCLE CLUB Meetings: Second Mondays, 7:30 p.m., American Red Cross Building, 4521 Taylor Ave., Racine, WI.

Appleton
FOX CITIES AMATEUR RADIO CLUB Meetings: Third Mondays, 7 p.m., Columbus Club, 2531 N. Richmond Street, Appleton, WI Information: Pat, K9IK, 920.725.1149. PLa-tour428@aol.com Web: <http://www.w9zl.ampr.org/>.

Baraboo
BADGERLAND AMATEUR TELEVISION SOCIETY (BATS) Check BATS Web page: <http://www.shopstop.net/BATS/>

Baraboo
YELLOW THUNDER AMATEUR RADIO CLUB Meetings: See the YTARC column elsewhere in this issue for meeting times and locations. For further information: <http://www.qsl.net/ytarc>.

Dubuque, IA
GREAT RIVER AMATEUR RADIO CLUB Meetings: First Monday of each month, 7 p.m. at the Red Cross Center, 2400 Asbury Road. The club serves the tri-state area. On the Web: <http://www.qsl.net/wb0lob/>. Information or questions to: N0hdc@aol.com.

Eau Claire
EAU CLAIRE AMATEUR RADIO CLUB Meetings: 2nd Tuesday - 7 p.m., Eau Claire Parks & Recreation, 1300 First Ave., Eau Claire, WI 54703. All hams and guests welcome. W9EAU repeater 146.91 MHz, tone 110.9 Hz. Information: Jim Staatz, KG9RA, President, P.O. Box 1867, Eau Claire, WI 54702-1867. Phone (715) 838-9108, Email kg9ra@ecarc.org. Web page: <http://www.ecarc.org>

Fond du Lac
FOND DU LAC AMATEUR RADIO CLUB Meetings: Second Monday at Moraine Park Technical College, Fond du Lac, WI. Time: 7 p.m. Sunday net: 7:30 p.m. CDT, K9IA repeater, 145.430 - PL 107.2 Information: Jack Heil, KG9IN, 920.922.1413. Email: kg9in@fdlhams.org Web: <http://www.fdlhams.org>.

Fort Atkinson
TRI-COUNTY AMATEUR RADIO CLUB second Thursday monthly except June to August, 7 p.m., at Dwight Foster Public Library in Fort Atkinson. ARES Net each Wednesday evening at 8 and club net Monday evenings at 8 on 145.49 repeater. Contact: Glenn Eisenbrandt, WA9VYL, 920.563.6502, or John Satterlee,

Rhinelanders
NORTHWOODS AMATEUR RADIO CLUB
Meetings: Third Tuesday of Sept., Nov., Dec., Feb., and April for dinner business meetings at Ella's Restaurant, Jct. of Hwy. 51 and 70, north side of Woodruff, WI. Talkin on Sayner or Tomahawk repeaters. The Northwoods ARC News is on the club web site. <http://www.freeyellow.com/members7/nwarc>.

Sheboygan
SHEBOYGAN COUNTY AMATEUR RADIO CLUB Meetings: Second Tuesdays. 7 p.m., Sheboygan County Red Cross/Boy Scout Building, 2032 Erie Avenue.

Shell Lake
NORTHLAND AMATEUR RADIO CLUB
Meetings: First Tuesday at the Shell Lake United Methodist Church, Reinhart Drive, Shell Lake, WI. Meeting time: 7 p.m. More information: <http://home.centurytel.net/NorthlandARC/>.

Stevens Point
CWRA Ltd./UWSP ARC Meetings second Wednesday. of each month at 7:30 pm. Science Building on the UW-Stevens Point Campus, Room A107, Stevens Point, WI. Email: jglas776@uwsp.edu. Webpage: www.qsl.net/wb9qfw.

Superior
ARROWHEAD AMATEUR RADIO CLUB, INC. Meetings: Second Tuesday at WITC Conference Center, 600 N. 21st St., Superior, WI. Time: 7:30 p.m. Board meetings held before regular meetings.

W.A.R. WISCONSIN ASSOCIATION OF REPEATERS
Quarterly meetings of the Wisconsin Association of Repeaters are held at various locations around the State on the second Saturdays of March, June, September and December. Check the WAR web page for meeting announcements and repeater coordination info. Information: <http://www.wi-repeaters.org>.

Watertown
WATERTOWN AMATEUR RADIO CLUB
Meetings: First Thursdays of month, 7 p.m., Watertown Public Library, 100 South Water Street.

Waupaca
WAUPACA AMATEUR RADIO CLUB CQ
First Tue. Social gathering and Dutch treat luncheon, King's Table, King, WI, on Highway QQ, just south of Highways 10 and 54, west side of Waupaca. Gather at 11 to 11:30. Order at noon. Club business transacted. CQ Third Fri. Social gathering and Dutch treat dinner. Semi-formal, OM and XYL, at one of the better supper clubs in the area. Check: Waupaca 147.39 nets at 8 a.m. or 8:50 p.m. for month's meeting location.

Wausau
WISCONSIN VALLEY RADIO ASSOCIATION Meetings: First Tuesdays, 7:30 p.m. Location varies. Information: 146.64 (-600). <http://home.dwave.net/~wvra/>.

West Allis
West Allis Radio Amateur Club Second Tues-

day of each month at 7:30 p.m. St. Peter's Episcopal Church, 80th and Lincoln Ave., West Allis. Meetings in basement. Entrance at rear, off alley. Handicapped accessible. www.warac.org.

West Bend
WASHINGTON COUNTY AMATEUR RADIO CLUB Meetings: Second Thursdays, 7:30 p.m., Washington County Courthouse. Net: Thursdays, 7:30 p.m., 146.73 (-600).

Wisconsin Rapids
WISCONSIN RAPIDS AMATEUR RADIO CLUB Meetings: Third Wednesdays, 7 p.m., Room 14 of Wood County Courthouse. Talkin: 146.79 (-600) for entry into the building.